



# भारत का राजपत्र The Gazette of India

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नई दिल्ली, शनिवार, अगस्त 17, 1991 (श्रावण 26, 1913)  
NEW DELHI, SATURDAY, AUGUST 17, 1991 (SRAVANA 26, 1913)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

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PATENTS AND DESIGNS  
Calcutta, the 17th August, 1991

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Telegraphic address "PATENTOFIS".

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"NIZAM PALACE", 2nd M.S.O. Bldg.,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagdish Bose Road,  
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

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## पेटेंट कार्यालय

एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 17 अगस्त 1991

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोही इस्टेट,  
तीसरा तल, लोअर परेल (पश्चिम),  
बम्बई-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोवा,  
बमन तथा दिव एवं बाबरा और नगर हवेली।

तार पता—''पेटोफिस''

पेटेंट कार्यालय शाखा,  
इकाई सं० 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरस्वती मार्ग, करोल बाग,  
नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा  
उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—''पेटेंटोफिक''

पेटेंट कार्यालय शाखा,

61, वालाजाह रोड,

मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र  
पाण्डिचेरी, लक्षद्वीप, मिनिक्ॉय तथा एमिनिदिवि द्वीप।

तार पता—''पेटेंटोफिस''

पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय  
मकान 5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700 020

भारत का अवशेष क्षेत्र

तार पता—''पेटेंट्स''

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी  
आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल  
उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क : —शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त  
कार्यालय में नियंत्रक को भुगतान योग्य चनादेश अथवा डाक आदेश या जहाँ  
उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को  
भुगतान योग्य बैंक ड्राफ्ट अथवा बैंक द्वारा की जा सकती है।

APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed  
Under Section 135, of the Patents Act, 1970.

The 8th July, 1991

518/Cal/91 Digital Equipment Corp. Apparatus and method for  
control of asynchronous Program interrupt events in  
a data processing system.  
[Divisional date 28th June, 1988.]

519/Cal/91 Johnson & Johnson consumer Products, Inc. Skin  
care compositions.

The 9th July, 1991

520/Cal/91 Fritz Stahlecker and Hans Stahlecker. A spinning  
machine.

521/Cal/91 Spindelfabrik Sussen, Schurr, Stahlecker & Grill  
GmbH. A process for spinning fiber material on a  
ring spinning machine and a spinning machine  
system.

522/Cal/91 Fritz Stahlecker and Hans Stahlecker. A spinning  
machine.

523/Cal/91 Fritz Stahlecker and Hans Stahlecker. A process for  
operating a spinning machine and a spinning  
machine.

524/Cal/91 Fritz Stahlecker and Hans Stahlecker. A process for  
changing blocks of cans on a spinning machine and  
a spinning machine.

525/Cal/91 Hitachi, Ltd. gas blast circuit breaker.

526/Cal/91 Permx B.V. A method and device for providing  
access—in a sterile condition—to material packaged  
within a sealed capsule chain.

527/Cal/91 Permx B.V. A device for filling and subsequent seal-  
ing of a capsule chain supplied in a flat-folded state  
from a supply coil.

528/Cal/91 Voest-Alpine Eisenbahnsysteme Gesellschaft m.b.H.  
Method for connection of railway point components  
consisting of cast hard manganese steel or  
manganese steel rails to a rail made from carbon  
steel.

529/Cal/91 Hoechst Celanese Corporation. Production of acetaminophen.

530/Cal/91 Beloit Corporation. A blanket for an extended nip press.

531/Cal/91 Flintab Ab. Strain gage transducer system with guard circuit.

The 10th July, 1991

532/Cal/91 Leningradsky Politekhichesky Institut Imeni M.L. Kalinina. Air plasma spray gun.

533/Cal/91 Siemens Aktiengesellschaft. Tube segment, in particular flame tube, with a cooled support frame for a heatproof lining.

534/Cal/91 E.I. Du Pont De Nemours and Company. High yield recycle process for lactide.

535/Cal/91 E.I. Du Pont De Nemours and Company. Electrostatic dry toners containing degradable resins.

536/Cal/91 Hoechst Ag. Process for the preparation of water soluble 2-naphthol Azo compounds.  
[Divisional date 16th Nov. 1988.]

The 11th July, 1991

537/Cal/91 E.I. Du Pont De Nemours and Company. Degradable foam materials.

538/Cal/91 E.I. Du Pont De Nemours and Company. Poly-hydroxy acid films.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, THIRD FLOOR, KAROL BAGH, NEW DELHI-110005

The 3rd June, 1991

475/Del/91 The Procter & Gamble Co, "C-fold releasable wrapper".

476/Del/91 The Procter & Gamble Co, "High speed pleating apparatus".

477/Del/91 Council of Scientific & Industrial Research, "An improved device for manufacturing metal matrix composites by liquid metallurgy technique and a process therefor.

478/Del/91 Nordson Corporation, "Rotary atomizer cup".

479/Del/91 Smiths Industries Medical Systems Inc., "Sealing filter cap for syringe".

480/Del/91 Warner—Lambert Co., "Process for insert molding wetshaving razor unit and unit made therefrom".

The 4th June, 1991

481/Del/91 United Wheels Pvt. Ltd, "Driving mechanism for cycles and like vehicles".

482/Del/91 Indo Italian Amusement, "An amusement apparatus".

483/Del/91 Indo Italian Amusement, "An amusement apparatus".

484/Del/91 Indo Italian Amusement, "An amusement apparatus".

485/Del/91 Indo Italian Amusement, "An amusement apparatus".

486/Del/91 Indo Italian Amusement, "An amusement apparatus".

487/Del/91 Indo Italian Amusement, "An amusement apparatus".

488/Del/91 Indo Italian Amusement, "An amusement apparatus".

489/Del/91 Indo Italian Amusement, "An amusement apparatus".

490/Del/91 Indo Italian Amusement, "An amusement apparatus".

491/Del/91 Aktiebolaget Astra, "Substituted benzimidazoles, process for their preparation and their pharmaceutical use".

492/Del/91 Aktiebolaget Astra, "Dialkoxy-pyridinyl-benzimidazole derivatives, process for their preparation and their pharmaceutical use".

493/Del/91 Exxon Chemical Patents, Inc. "Improved recycle for process for purification of linear paraffins".

494/Del/91 Exxon Chemical Patents, Inc. "Improved process control for process for purification of linear paraffins".

The 5th June, 1991

495/Del/91 Ajit Kumar Jaju, "Poly-carbonate optical lens".

496/Del/91 Monk Construction Ltd, "Method, apparatus and composition".

497/Del/91 The Dexter Corporation, "Battery separator".

498/Del/91 Jacques Viena, "Rail bogie".

The 6th June, 1991

499/Del/91 The Gillette Co., "Razor". (Convention date 11th June, 1990 & 19th July, 1990) (U.K.).

500/Del/91 The Gillette Co., "Razor blade assembly". (Convention date 12th June, 1990) (U.K.).

501/Del/91 Chemical Research & Licensing Co., "Catalytic distillation reactor".

502/Del/91 Shri Gaur Dham Trust, "A power loom".

The 7th June, 1991

503/Del/91 Ganesh Scientific Research Foundation, "A novel apparatus for imparting shape to granulated or powdery materials and articles made therewith".

## The 10th June, 1991

- 504/Del/91 The Procter & Gamble Co., "Mechanical actuator for dispensing tap".
- 505/Del/91 The Procter & Gamble Co., "Sanitary napkin having soft edges".
- 506/Del/91 C.R. Bard, Inc., "fixed wire dilatation catheter with distal twistable segment".
- 507/Del/91 Dorr-Oliver Incorporated, "High-rate washing centrifuge".
- 508/Del/91 GEC Alsthom Energie Inc., "Balancing device for the blade of a section switch of the type which opens vertically".

## The 11th June, 1991

- 509/Del/91 Paul Wurth S.A., "Device for mounting and dismounting shaft furnace tymps".
- 510/Del/91 E.R. Squibb & Sons, Inc., "Process and intermediates for beta-lactams having aminothiazole (iminooxyacetic acid) acetic acid sidechains".

## The 12th June, 1991

- 511/Del/91 United Technologies Corporation, "Environmental control system condensing cycle".
- 512/Del/91 The University of Sydney and other, "A DC ARC torch power supply". (Convention date 15th June, 1990) (Australia).
- 513/Del/91 Exxon Chemical Patents, Inc., "Ashless dispersants".

## The 13th June, 1991

- 514/Del/91 Imperial Chemical Industries PLC., "Zeolites". (Convention date 21st June, 1990) (U.K.).
- 515/Del/91 Imperial Chemical Industries PLC., "Zeolites". (Convention date 22nd June, 1990) (U.K.).
- 516/Del/91 Steel Authority of India Ltd., "A device for measuring the length of hot rolled products and optimising that of the short pieces cut therefrom in a steel plant".

## The 14th June, 1991

- 517/Del/91 Vinay Kumar & Other, "A new two-in-one room conditioner".
- 518/Del/91 J.P. Gupta, "Table fan cum room cooler".

## The 17th June, 1991

- 519/Del/91 Indo Italian Amusement, "An amusement apparatus".
- 520/Del/91 Indo Italian Amusement, "An amusement apparatus".
- 521/Del/91 Indo Italian Amusement, "An amusement apparatus".

522/Del/91 Indo Italian Amusement, "An amusement apparatus".

523/Del/91 Indo Italian Amusement, "An amusement apparatus".

524/Del/91 The Lubrizol Corporation, "A process for preparing a high molecular weight additive/dispersant". [Divisional date 28th February, 1986].

## The 18th June, 1991

- 525/Del/91 M.P. Singh & Other, "Straw cell".
- 526/Del/91 Council of Scientific & Industrial Research, "An improved method for removal of stones from coriander".
- 527/Del/91 Council of Scientific & Industrial Research, "Improvements in or relating to spinel type anodes for electrowinning of metals from aqueous electrolytes".
- 528/Del/91 Council of Scientific & Industrial Research, "A process for making water soluble deflocculant and emulsion from coal tar pitch".
- 529/Del/91 Council of Scientific & Industrial Research, "An improved process for the preparation of 1-alkyl-3-carbethoxy-4-piperidones".
- 530/Del/91 Council of Scientific & Industrial Research, "An improved process for the preparation of silver base silver-cadmium-oxide for use as electrical contacts".
- 531/Del/91 Council of Scientific & Industrial Research, "An improved process for manufacturing of superior quality wear resistant ceramics".
- 532/Del/91 Colgate-Palmolive Co, "A toothbrush and a method of manufacturing a toothbrush". [Divisional date 6th March, 1989].
- 533/Del/91 Sony Corporation, "disc recording/reproducing apparatus".
- 534/Del/91 Exxon Chemical Patents, Inc., "Amido amine ashless dispersants".
- 535/Del/91 Albright & Wilson Ltd., "Coating composition and process".

## The 19th June, 1991

- 536/Del/91 Lipha, Lyonnaise Industrielle Pharmaceutique, "Process for obtaining water-soluble polysaccharides". [Divisional date 25th August, 1988].

## The 20th June, 1991

- 537/Del/91 Council of Scientific & Industrial Research, "A process for the preparation of novel alkyl fumarate alkyl acrylate vinyl ester terpolymer useful as pour point depressant and fluidity improver for waxy crude oils".

538/Del/91 Council of Scientific & Industrial Research, "A process for the preparation of novel alkyl fumarate-vinyl ester copolymer useful as pour point depressant and fluidity improver for waxy crude oil".

539/Del/91 Council of Scientific & Industrial Research, "An improved process for the preparation of 2, 4, 4, 4, tetrachlorobutyronitrile".

540/Del/91 Council of Scientific & Industrial Research, "An improved process for the preparation of photo-conductive cadmium sulphide power useful for xerographic applications".

541/Del/91 The Procter & Gamble Co., "Polymeric web exhibiting a soft, silky, cloth-like tactile impression and including a contrasting visually discernible pattern having an embossed appearance on at least one surface thereof".

542/Del/91 Prabhat Kumar, "Hand cum face drier".

543/Del/91 E.R. Squibb & Sons, Inc., "Benzopyran derivatives and heterocyclic analogs thereof as antiischemic agents".

544/Del/91 Christian dussel, "Installation for the treatment of a pulverulent raw material such as calcium sulfate, for preparation of a hydraulic binder".

The 21st June, 1991

545/Del/91 Betty Jean Haring & Other, "Improved internal combustion engine and method".

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, IIIRD FLOOR, SUN MILL COMPOUND, LOWER PAREL (W), BOMBAY-400 013

The 13rd May, 1991

139/Bom/91 Rajendra Singh Chauhan. An automatic electronic device for detecting L.P.G. leakage/flare failure and stoping gas supply.

140/Bom/91 Anirudha Shivprasad Bhagat & Mrs. Shakuntala Anirudha Bhagat. Construction of underpasses below railway tracks embankments with the use of Quadricon relieving spans of Bridges quickly economically and efficiently and installation without disruption of rail traffic, also permitting high speeds for trains.

The 14th May, 1991

141/Bom/91 The Filanthropy Group. Portable hydroelectric power plant.

The 15th May, 1991

142/Bom/91 Rajnikant Devidas Shroff. A process and apparatus for the production of free-flowing dry phosphorus pentachloride.

The 17th May, 1991

143/Bom/91 Vijay Kantilal Shah. An instrument for describing arcs, taking or marking distances and the like.

The 20th May, 1991

144/Bom/91 Carlo Francesco Marconi. 21st May 1990, Gr-Britain & 18th Dec. 1990 Gr. Britain. Rotary Four Cycle Twin cylinder boxer engine without valves.

145/Bom/91 Hindustran Lever Ltd. Bleach Activation.

146/Bom/91 Hindustran Lever Ltd. 21st May, 1990 Great Britain & 18th Dec. 1990 Great Britain. Bleach Activation.

The 21st May, 1991

147/Bom/91 Hemant Madhukar Ranadive. Energy Footwear.

148/Bom/91 Hemant Madhukar Ranadive. Self regulating three diamentional mixer.

149/Bom/91 M/s. Four Eyes Research (P) Ltd. A process for removal/recovery of sugars from sugarcane rind without mechanical damage to rind fibre.

150/Bom/91 Haresh Chhotalal Mehta. An improved form of carton for packing & display known as TD-PAC.

The 23rd May, 1991

151/Bom/91 Hindustan Lever Ltd. Lubricants.

152/Bom/91 Hindustan Lever Ltd. 24th May, 1990 Gr. Britain. Bleaching composition.

153/Bom/91 Dr. Ramesh Tribhuvandas Doshi. Comprehensive foliar spray composition for better plant growth higher and quality yields and to enhance natural disease resistance capacity.

The 24th May, 1991

154/Bom/91 Devendra Somabhai Naik. Rapid jet dyeing machine with a very low material liquor ratio of 1:2 to 1:3.

155/Bom/91 Devendra Somabhai Naik. Unique sealing pump-universal sealing pump.

The 27th May, 1991

156/Bom/91 Dr Chandrakant Deyandev Lokhane. "A chemical method for Tin disulphide thin film deposition".

157/Bom/91 Hindustan Lever Ltd. 21st June, 88, Gr. Britain. "Method of Refining Glyceride Oils".

158/Bom/91 M/s. Polyolefins Industries Ltd. Improved coupler for plastic pipes.

The 29th May, 1991

159/Bom/91 Hindustan lever Ltd., 30th May 1990, Gr. Britain. Bleaching Composition.

## The 30th May, 1991

- 160/Bom/91 Hemant Madhukar Ranadive. Tyre Pressure Gauge Cum Safety Valve.

## The 3rd June, 1991

- 161/Bom/91 Plastart Electronics Pvt. Ltd. "An improved Electronic Lock for the Dialling System of a telephone set".

## The 4th June, 1991

- 162/Bom/91 Hindustan Lever Ltd. Cleaning compositions providing improved mush reduction Mildness Enhancement or Both.
- 163/Bom/91 Hindustan Lever Ltd. 6th June 1990 Gr. Britain. Detergent Compositions.
- 164/Bom/91 Shreyans Randheliya. Coating film solution for hardness/softness of paper/fibers.
- 165/Bom/91 Phenoweld Polymec Private Ltd. "Improved Bath Tub".
- 166/Bom/91 Rajan Bhogate. Improved Efficiency Machine and Method of Making the same.

## The 6th June, 1991

- 167/Bom/91 Outokumpu OY a. Method for mixing and separating two liquid phases and an apparatus for realizing the method.
- 168/Bom/91 Filtration Ltd. Self-Cleaning Filter.
- 169/Bom/91 Greaves Foseco Ltd. 7th June, 1990, Gr. Britain. Refractory Composition.

## The 7th June, 1991

- 170/Bom/91 Vipin Champsey Shah. "Isothermal Compressors".
- 171/Bom/91 Vipin Champsey Shah. "A more fuel efficient Otto Engine".

## APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

## The 17th June, 1991

- 460/Maa/91 Urecon Anstalt. Process and devices for avoiding the draggings of urea and eliminating the formation of fouling substances in the vacuum separators of urea plants.
- 461/Maa/91 Baltimore Aircoil Company, Inc. Combined mechanical refrigeration and absorption refrigeration method and apparatus.
- 462/Maa/91 The Dow Chemical Company. Radiopharmaceutical formulations, their method of administration and process of preparation.

## The 18th June, 1991

- 463/Maa/91 Girivas Viswanath Shet (India), Mysore Sandal Products. Gandhi Marg Scheme which is a scheme meant to provide finance to virgin girls at the time of their marriage & which at the same time takes out the heavy burden from the shoulders of parents.
- 464/Maa/91 Mauser-Werke GMBH. Plastics processing machine and process for rapid change-over.
- 465/Maa/91 Hoogovens Groep BV. Sintering machine.
- 466/Maa/91 Himont Incorporated. Process for preparing organic esters and amides and catalyst system therefor.
- 467/Maa/91 Montedips S.R.L. Method for preparing a solid catalyst component for ethylene (CO) Polymerization.
- 468/Maa/91 Lucas-TVS Limited. An electronic regulator for DC direct lighting systems.

## The 19th June, 1991

- 469/Maa/91 JVS Electronics Pvt. Ltd. A safety device.
- 470/Maa/91 Bedi & Bedi Private Limited. Improvements in or relating to processing of tea leaves by use of non-mechanical means.
- 471/Maa/91 Energeo Inc. Transportable electrical power generating system fueled by organic waste.
- 472/Maa/91 The Haser Company Limited. A thermallydriven gas resonance device. (November 6, 1986; Great Britain) (Divisional to Patent Application No. 746/Maa/87).

## The 20th June, 1991

- 473/Maa/91 Mohan A. Menon. Chalk crayon/slate pencil holder or pen chalk/slate pen.
- 474/Maa/91 Inventio AG. Safety disc brake for lifts.

## The 21st June, 1991

- 475/Maa/91 P. T. Sebastian. Spring engine that works without diesel, petrol or electricity is invented.
- 476/Maa/91 Simon Edward John. Apparatus for transplant propagation.
- 477/Maa/91 Hoogovens Groep BV. Cooling system for cooling a moving metal strip.

## The 25th June, 1991

- 478/Maa/91 Michael Kutter. Planetary gear train for hybrid vehicles.
- 479/Maa/91 Qualcomm, Inc. System and method for generating signal waveforms in a CDMA cellular telephone system.
- 480/Maa/91 Hedley Purvis Limited. A torque wrench. (January 20, 1987; United Kingdom); (Divisional to Patent Application No. 16/Maa/88).

## The 26th June, 1991

- 481/Maa/91 Sobrevin Societe de brevets Industriels-Etablissement. A feed system for running threads.
- 482/Maa/91 Merlin Gerin. Low voltage electrical switchgear cabinet.
- 483/Maa/91 Palitex Project Company GmbH. A twisting machine, in particular a two-for-one twisting machine.
- 484/Maa/91 Caterpillar Inc. A tip-relieved spiral bevel gear and method.

## The 27th June, 1991

- 485/Maa/91 M. Viswanathan. Electronic circuit for liquid level sensor indicator and automatic controller.
- 486/Maa/91 Societe des Produits Nestle S.A. A process and an apparatus for the production of instant coffee powder.
- 487/Maa/91 Henkel Kommanditgesellschaft auf Aktien. Nitrite-free, aqueous wet dressing agents for steel and galvanized steel.
- 488/Maa/91 Amsted Industries Incorporated. Freight railcar truck and bolster for outboard support of car body.
- 489/Maa/91 Maschinenfabrik Rieter AG. Drawing bath.

## The 28th June, 1991

- 490/Maa/91 Narasimhan Venkataramanan. A vacuum cleaner-cum-blower attachment.
- 491/Maa/91 Waeachle Maschinenfabrik GmbH. A bucket wheel sluice.
- 492/Maa/91 Union Carbide Chemicals and Plastics Company Inc. Novel coimpregnated vanadium zirconium catalyst for making polyethylene with broad or bimodal M<sub>w</sub> distribution.

## The 1st July, 1991

- 493/Maa/91 A. Samuel Patrick. Patrica heavy duty bus.
- 494/Maa/91 Tribology India Ltd. Treatment of ferrous surfaces to enhance the corrosion resistance thereof.
- 495/Maa/91 Physical Sciences Inc. High utilization supported catalytic metal-containing gas diffusion electrode, process for making it, and cells utilizing it.
- 496/Maa/91 Asea Brown Boveri Ltd. Process for compensating nonlinearities in an amplifier circuit.
- 497/Maa/91 Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Open and spinning rotor.
- 498/Maa/91 Chevron Research and Technology Company. Zeolite SSZ-32.
- 499/Maa/91 Sobrevin Societe de brevets industriels-Etablissement. A thread pull-off system and apparatus.

## The 2nd July, 1991

- 500/Maa/91 T. Chandrasekhar and T. Srinivasarao. synchronous and synergistic alkaline pulping and electrobleaching.
- 501/Maa/91 BASF Aktiengesellschaft. Method of regenerating inactive and poisoned platinum catalyst.
- 502/Maa/91 BASF Aktiengesellschaft. Platinum-on-graphite catalysts and the use thereof.
- 503/Maa/91 BASF Aktiengesellschaft. Platinum on graphite catalysts and the use thereof.
- 504/Maa/91 Caledonia Composites Limited. Pultruded profiles.
- 505/Maa/91 Himont Incorporated. Catalyst for the polymerisation of alpha-olefins containing trifluoropropyl substituted silane compounds.
- 506/Maa/91 Dana Corporation. Tandem axle assembly. (December 23, 1987; United Kingdom) (Divisional to Patent Application No. 72/Maa/88).

## The 3rd July, 1991

- 507/Maa/91 Sedepro. Device for the metering of granular or powdered products and method of mixing raw rubbers using this device.
- 508/Maa/91 Sedepro. Device for the metering of granular or powdered products and method of mixing raw rubbers using this device.

## The 4th July, 1991

- 509/Maa/91 DSM N. V. Process for treating amides.
- 510/Maa/91 DSM N. V. Palladium catalyst systems for selective hydrogenation of diene polymers and copolymers.
- 511/Maa/91 Frans Herman De Haan. Device for identifying and localizing transponders.
- 512/Maa/91 Engelhard De Moern-B.V. Sulfur-promoted nickel catalyst and preparation thereof.

## ALTERATION OF DATE UNDER SEC. 16

169027 : Ante-dated to February 20, 1986.  
(288/Cal/1989)

## PATENTS SEALED

152031 166078 166743 166916 166931 166943 166961 166962 166995  
167012 167022 167025 167027 167091 167095 167100 167108 167110  
167114 167116 167122 167123 167124 167141 167142 167144 167147  
167148 167149 167150 167166 167167 167168 167170 167175 167176  
167177 167178 167179 167192 167201 167205 167206 167207 167208  
167209 167222 167223 167225 167227 167228 167229 167235 167259  
167276 167277 167278 167279 167291 167292 167293 167294 167295  
167296 167299 167384 167423 167448 167470

CAL — 14  
DEL — 15  
MAS — 29  
BOM — 11

## AMENDMENT PROCEEDING UNDER SECTION 57

Proposed amendments under Section 57 of the Patents Act 1970 in respect of Patent Application No. 167439 (466/Maa/86) as advertised in the Gazette of India dated 23-3-1991 have been allowed.

Notice hereby given that OCTANORM-VERTRIEBS GmbH FUR BAUELEMENTE, a Joint stock company organized under the laws of Federal Republic of Germany, of Raiffeisenstrasse 23, 7024 Filderstadt 4, Federal Republic of Germany have made an application under Section 57 of the Patents Act, 1970 for amendment of complete specification of their Patent Application No. 168282 (249/Bom/1988) for "Assembly kit for framework structures". The amendments are by way of to amend claim. The Application for amendments and proposed amendments can be inspected free of charge at the Patent Office Branch, Tbd Estate, 11th Floor, Sun Mill Compound, Lower Parel (W), Bombay-400013, on any working day during usual office hours or copies of same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file the notice of opposition on the prescribed form-30 alongwith full written statement within three months from the date of this notification at the Patent Office Branch, Bombay.

If full written statement of opposition is not filed with the notice of opposition it should be filed within one month from the date of filing the said notice of opposition.

Notice is hereby given that SUN CHEMICAL CORPORATION OF THE STATE OF DELAWARE, U.S.A., OF 200, PARK AVENUE, NEW YORK, U.S.A., have made an application under Section 57 of the Patents Act, 1970, for amendment of application and specification of their application for Patent No. 167872 for "A PROCESS FOR PREPARING AN AQUEOUS POLYMER EMULSION FOR USING AS A BINDER OF FIBERS OF FABRICS". The amendments are by way of amending the applicant's name for Patent. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600 002, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form-30 within 3 months from the date of Notification at the Patent Office, Madras-2. If the written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said Notice.

REGISTRATION OF ASSIGNMENTS LICENCES, ETC.  
(PATENTS)

Assignments, Licences or other transactions affecting the interest of the original patentees have registered in the following cases. The number of each case is followed by the name of the parties claiming interests :—

159223 — INTERNATIONAL RESISTIVE COMPANY INC.

## RENEWAL FEES PAID

148939 149174 149216 149874 150109 150110 150256 151286 151384 151441 151536 151586 151724 151950 152125 152155 152225 152440 152698 152699 153195 153251 154134 154181 154466 154674 154709 155246 155415 155841 156146 156249 156283 156631 156643 156705

156764 156945 156954 156993 156995 156996 157288 157289 157308 157359 157415 157425 157462 157494 157578 157589 157665 157667 157700 157871 157938 157958 157977 158175 158823 158831 158834 159094 159436 159738 160023 160398 160618 160619 160674 160711 160821 160868 160893 160894 161091 161171 161303 161360 161465 161632 161687 161773 161892 161954 162010 162041 162126 162144 162345 162382 162410 162441 162488 162581 162870 162881 162883 162941 163024 163127 163193 163245 163319 163325 163654 163662 164062 164072 164170 164197 164252 164302 164336 164375 164477 164515 164520 164678 164699 164747 164986 165007 165075 165094 165098 165286 165495 165797 165798 165813 165902 165909 166073 166085 166131 166276 166309 166310 166387 166388 166522 166563 166566 166600 166646 166647 166648 166649 166902 166951 166981 167266.

## CESSATION OF PATENTS

155442 156600 158453 159326 165028 165704.

## RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 163952 dated the 10th May, 1985 made by HYBRITECK INC. on the 12th March, 1990 and notified in the Gazette of India, Part III, Section 2 dated the 7th July, 1990 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 150855 dated the 11th September, 1978 made by SCOOTERS INDIA LIMITED on the 5th September, 1990 and notified in the Gazette of India, Part III, Section 2 dated the 12th June, 1991 has been allowed and the said patent restored.

(3)

Notice is hereby given that an application for restoration of Patent No. 164507 dated the 7th November, 1985 made by DR. WOLFGANG KNOGLER & EWALD PICKHARD on the 29th October, 1990 and notified in the Gazette of India, Part III, Section 2 dated the 23rd February, 1991 has been allowed and the said patent restored.

(4)

Notice is hereby given that an application for restoration of Patent No. 157425 dated the 11th August, 1983 made by THE ASSOCIATED CEMENT COMPANIES LIMITED on the 11th August, 1989 and notified in the Gazette of India, Part III, Section 2 dated the 6th January, 1990 has been allowed and the said patent restored.

(5)

Notice is hereby given that an application for restoration of Patent No. 163324 dated the 31st January, 1985 made by FLUOR CORPORATION on the 5th September, 1990 and notified in the Gazette of India, Part III, Section 2 dated the 12th February, 1991 has been allowed and the said patent restored.



## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta. Payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

## स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बन्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कमी भी नियंत्रक, एकस्य को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप हैं।"

नीचे सूचीगत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियाँ, भारत सरकार भुक्त धियो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होगी। प्रत्येक विनिर्देश का मूल्य 2/- रु० है (यदि भारत के बाहर भेजे जाएं तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथाप्रवर्णित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपान्कन (चित्र आरेखों) की फोटो प्रतियाँ, यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रमार जिसे उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रमार 4/- रु० है) फोटो लिप्यान्तरण प्रमार का परिकलन किया जा सकता है।

CLASS : 69-I.

Int. Cl. : H 01 h 69/00.

169011

## APPARATUS FOR RAPID RECOGNITION OF SHORT-CIRCUITS.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

Inventors : (1) GERHARD TRENKLER, (2) REINHARD MAIER, (3) THOMAS NIPPERT.

Application No. 594/Cal/1987, filed on 31st July, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 20 Claims

Apparatus for rapid detection of short-circuits in an electrical installation comprising means generating an electrical trigger command operating a circuit breaker of the electrical installation in the event of a short circuit comprising an electronic measuring and processing arrangement receiving instantaneous current and voltage values from the electrical installation said measuring and processing arrangement comprising a digital comparison circuit comparing the current values to pre-settable limit values and transmitting the trigger command in the event the instantaneous current values exceed at least one of the limit values, the measuring and processing arrangement further comprising means for determining from measured variations of the current and the voltage of a power source of the electrical installation the complex impedances and power, said means for determining from the measured variations being coupled to said digital comparison circuit, whereby the detected complex impedances and power and compared to preset limit values of complex power and impedance and said trigger command is generated when at least one of said pre-set limit values is exceeded.

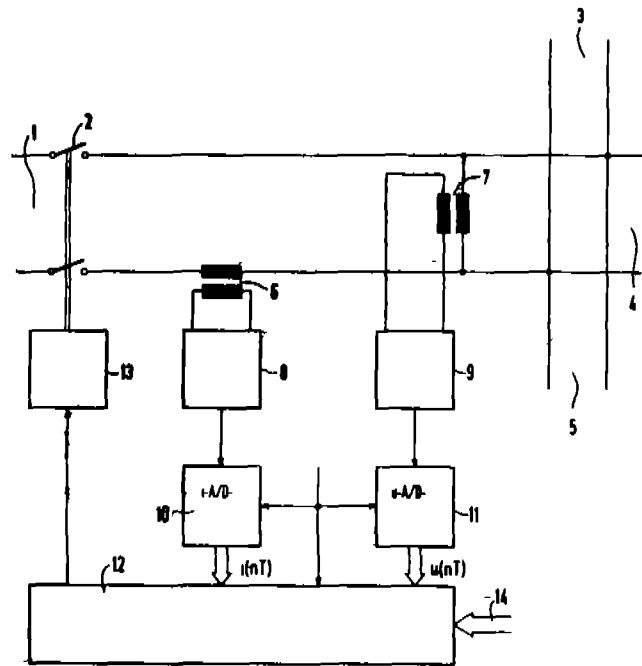


Fig. 1

Compl. Specn. 14 Pages.

Drgs. 2 Sheets.

CLASS : 147-E.

Int. Cl. : G 11 b 5/41.

169012

## CLEANING DEVICE FOR MAGNETIC HEAD.

Applicant & Inventor : TSUN-NAN YEH, OF NO. 214-1, NAN-DA ROAD, HSIN CHU CITY, TAIWAN, REPUBLIC OF CHINA.

Application No. 623/Cal/1987, filed on 11th August, 1987.

(Convention dated 2nd October, 1986; No. 8623652; U.K.)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 1 Claim

A cleaning device for a magnetic head, including a cassette body having a base housing portion and a cover portion, a take up-reel and a feed reel mounted in said base housing portion and a cleaning tape made of fluid-absorbent fabric wound around said reels similarly to a cassette tape, characterised by: a cleaning fluid containing unit which includes a fluid container adapted to be placed in said cassette body, a fluid pumping unit attached to said fluid container and having a push button to be operated for dispensing cleaning fluid from said container, a duct connected to said pumping unit and a nozzle connected to said duct for dispensing the cleaning fluid to the said tape; a space for accommodating said cleaning fluid containing unit provided in said base housing portion; retaining projections integrally formed in said base housing portion around said space for positioning and holding said fluid container against lateral movement; U-shaped positioning member integrally formed in said base housing for positioning said duct and said nozzle adjacent said tape; and a discontinuous portion provided on a side wall of the said base housing portion for exposing said push button which is accessible from outside and two inwardly projecting flanges at said discontinuous portion for confining a recess that receives said push button.

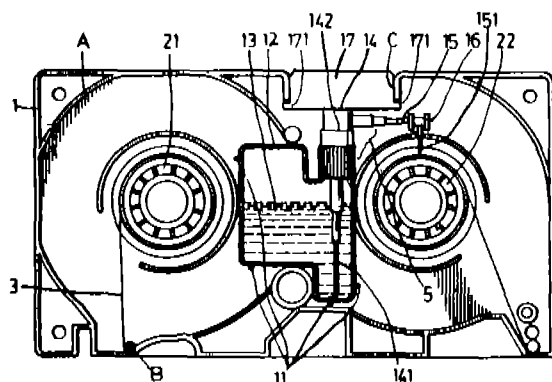


Fig. 1

Compl. Specn. 8 Pages.

Drgs. 2 Sheets.

CLASS : 194-C1  
Int. Cl. : H 01 j 29/48.

169013

### A CATHODE-RAY TUBE.

Applicant : RCA LICENSING CORPORATION, OF 2 INDEPENDENCE WAY, P.O. BOX 2023 PRINCETON, NEW JERSEY 08540, U.S.A.

Inventors : (1) STANLEY BLOOM, (2) ERIC FRANCIS HOCKINGS.

Application No. 657/Cal/1987, filed on 19th August, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 3 Claims

A cathode-ray tube having an electron gun for generating and directing three electron beams along paths toward a screen of said tube, said gun including electrodes comprising a beam-forming region and electrodes for forming a main focusing lens, characterized by

electrodes (42, 44) in said electron gun (26) for forming a multipole lens between the beam-forming region and the main focusing lens in each of the electron beam paths, wherein said electrodes for forming a multipole lens include a first multipole lens electrode (42) and a second multipole lens electrode (44), said second multipole lens electrode being a portion of one said electrodes (44, 46) for forming said main focusing lens, and said first multipole lens electrode being located between the second multipole lens electrode and the beam-forming region, adjacent to the second multipole lens electrode, and

each multipole lens being located sufficiently close to the main focusing lens to cause the strength of the main focusing lens to vary in relation to the strength of said multipole lens as a function of voltage variation of the dynamic voltage signal.

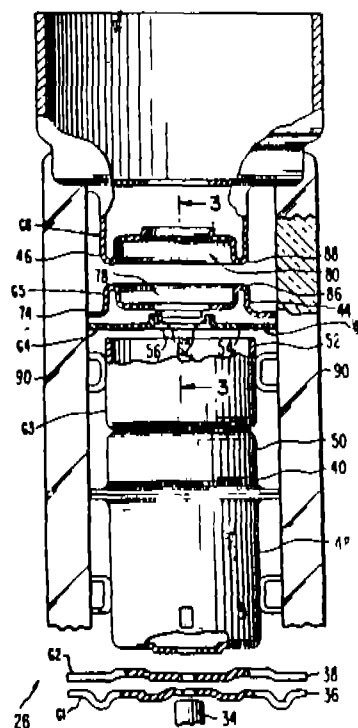


Fig. 2

Compl. Specn. 17 Pages.

Drgs. 6 Sheets.

CLASS : 63-H.  
Int. Cl. : H 01 f 1/08, 1/113;  
H 02 k 15/02.

169014

### PERMANENT MAGNET ASSEMBLY AND METHOD OF MAKING SAME.

Applicant : EMERSON ELECTRIC CO., OF 8100 W. FLORIS-SANT, ST. LOUIS, MISSOURI 63136, U.S.A.

Inventor: JERRY DEAN LLOYD.

Application No. 666/Cal/1987, filed on 24th August, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

#### 24 Claims

The method of making a permanent magnet assembly for a dynamoelectric machine comprising:

providing an assembly body of ferromagnetic material or the like, said body defining at least one magnet slot therein;

filling the slot at least partially with a mixture of magnetizable particles and a binder;

compressing the material in the slot by exerting pressure on the mixture;

curing the compressed mixture without significantly shrinking the material in the slot to bond the magnetizable particles together in the slot, there being no air gap between the slot and the bonded magnetizable particles; and

magnetizing the bonded particles in the slot to form a magnet *in situ* in the slot, said slot being configured to retain the magnet in place therein.

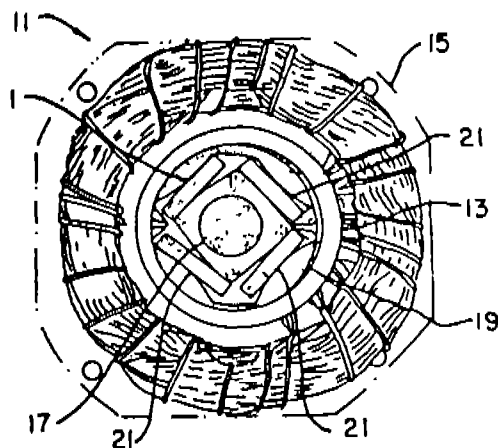


Fig. 1

Compl. Specn. 19 Pages.

Drgs. 3 Sheets.

CLASS: 39-K.  
Int. Cl.: C 01 b 15/01.

169015

A PROCESS FOR THE EXTRACTION OF HYDROGEN PEROXIDE FROM THE WORKING SOLUTION OBTAINED IN A CONVENTIONAL ANTHRAQUINONE PROCESS.

Applicant: DEGUSSA AKTIENGESellschaft, OF 6000 FRANKFURT AM MAIN, WEISSFRAUENSTRASSE 9, F. R. GERMANY.

Inventors: (1) WOLFGANG KUNKEL, (2) GUSTAAF GOOR, (3) JORG KEMNADE.

Application No. 667/Cal/1987, filed on 25th August, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

#### 9 Claims

A process for the extraction of hydrogen peroxide from the working solution obtained in a conventional anthraquinone process which comprises subjecting said working solution containing hydrogen peroxide to an extraction step using water thereby to obtain two streams namely (i) a first stream containing aqueous hydrogen peroxide extract having dispersed therein small quantities of the unextracted working solution and (ii) a second stream containing the extracted working solution lean in hydrogen peroxide having dispersed therein small quantities of aqueous hydrogen peroxide solution characterized in that, said second stream is mixed with water or aqueous hydrogen peroxide to obtain a further working solution, still more leaner in hydrogen peroxide and a dispersed phase and the said first stream containing said aqueous hydrogen peroxide extract is mixed with a solvent mixture composed of organic solvents preferably quinone dissolver stable to aqueous hydrogen peroxide and soluble in water below 1% in volume, to obtain an aqueous hydrogen peroxide extract and a dispersed phase whereafter the said dispersed phase/s is/are separated from the other component by means of coalescers as herein described in a separate unit.

Compl. Specn. 16 Pages.

Drg. NIL.

CLASS: 35-E.  
Int. Cl.: C 04 b 14/00.

169016

A METHOD OF PRODUCING A FOAMED CERAMIC ARTICLE.

Applicants: LANXIDE TECHNOLOGY COMPANY, LP TRALEE INDUSTRIAL PARK, NEWARK, DELAWARE 19711, U.S.A. AND ALCAN INTERNATIONAL, LTD., 1188 SHERBROOKE STREET, WEST MONTREAL, QUEBEC, CANADA H3C 3S2.

Inventors: (1) EUGENE SANGMOO PARK, (2) STEVEN DOUGLAS POSTE.

Application No. 734/Cal/1987, filed on 14th September, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

#### 11 Claims

A method of producing a foamed ceramic article comprising:

- providing in a known manner a parent metal foam body comprised of metallic ligaments interconnected randomly in three dimensions to constitute an open-cell structure, the external surfaces of said ligaments defining open channels interconnected randomly in three dimensions;
- treating said precursor metal foam body, at a temperature below the melting point of said metal, for forming on the surface of said ligaments a support coating capable *per se* of maintaining the integrity of the open-cell structure when said body is heated to a temperature above the melting point of the metal;

- (c) heating the treated body to a temperature above the melting point of the metal in the presence of an oxidant and reacting the resulting molten metal on contact therewith to form an oxidation reaction product within an optionally beyond said support coating, to form an open-cell ceramic foam having essentially the open-cell reticulated structure of said metal body; and

- (d) cooling said body and recovering said ceramic article.

Compl. Specn. 28 Pages.

Drg. 1 Sheet.

CLASS : 144-Ea.

169017

Int. Cl. : C 09 c 3/06.

#### PROCESS FOR PREPARING PEARL LUSTRE PIGMENTS BASED ON METAL OXIDE COATED MICA FLAKES.

Applicant : MERCK PATENT GESELLSCHAFT, MIT BESCHRANKTER HAFTUNG FRANKFURTER STR. 250, D-6100 DARMSTADT, F. R. GERMANY.

Inventors : (1) DR. KLAUS AMBROSIUS, (2) AUGUST KNAPP, (3) HELMUT PLAMPER, (4) DR. REINER ESSELBORN.

Application No. 824/Cal/1987, filed on 23rd October, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

#### 8 Claims

Process for preparing pearl lustre pigments based on metal oxide coated mica flakes wherein, to coat with titanium dioxide in the rutile form not only titanium dioxide but also tin oxide is precipitated from aqueous metal salt solutions onto the mica flakes in aqueous suspension and the pigment is then washed, dried and calcined, which is characterized in that the precipitation of the tin dioxide is concluded before the addition of the titanium salt solution, that said precipitation of tin dioxide effected at a pH from 0.5 to 3 and that of titanium dioxide at a pH not substantially above 2.0 and that said tin salt is used in such an amount that the tin content, based on the mica used, is small.

Compl. Specn. 9 Pages.

Drg. NIL.

CLASS : 145-C.

169018

Int. Cl. : B 32 b 18/00.

#### A LAMINATED INSULATING MEMBER.

Applicant : GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD, SCHENECTADY 5, NEW YORK, U.S.A.

Inventor : ERIC WOLFGANG BAYER.

Application No. 870/Cal/1987, filed on 6th November, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

#### 13 Claims

A laminated insulating member characterized by relatively high dielectric and flexural strength and suitable for use as an electric insulator and physical support in high-temperature applications, the member having a first layer joined on one side to a second layer, wherein :

said first layer is a hard refractory material that was fully cured separate from said second layer, the inboard side of said first layer having a relatively coarse surface and the mean thickness of said first layer exceeding approximately 30 mils; and

said second layer is a molded compound comprising electrically non-conductive fibrous material impregnated with a thermoset resin such as herein described.

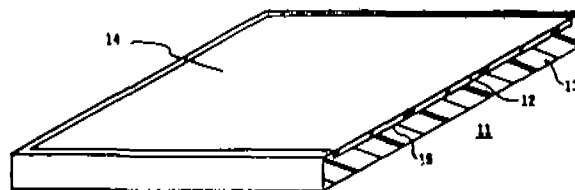


Fig. 1

Compl. Specn. 13 Pages.

Drg. 1 Sheet.

CLASS : 185-A, C.

169019

Int. Cl. : A 23 f 3/12.

#### A MULTI-ROLLER CTC MACHINE.

Applicant : M/S. STELLSWORTH PVT. LTD., AT 17, GANESH CHANDRA AVENUE, CALCUTTA-700 013, WEST BENGAL, INDIA.

Inventor : SHRI MANGALORE PRABHAKAR PRABHU.

Application No. 942/Cal/1987, filed on 1st December, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

#### 3 Claims

A multi-roller C.T.C. machine to achieve at least 2-stage C.T.C. operation, which comprises a first roller, a second roller and a third roller, each of which is a segmented roller, the first roller and the second roller being housed in their respective bearings and adapted to rotate in the opposite directions namely, the first roller in the clockwise direction and the second roller in the anti-clockwise direction, the said two rollers being so positioned to create the desired nip between the rollers' surfaces, the first roller being so positioned with reference to the second roller such that the tea leaves passing through the nip between the said two rollers is adapted to fall on the surface of the third roller to be carried to the nip created between the said second roller and the third roller rotating in the opposite directions of the second roller, and wherein the said first roller and the said third roller are slow speed rollers while the said second roller is a high speed roller, said high speed roller having diameter large enough to create nip simultaneously between its cylindrical surface and the cylindrical surfaces of the said first and third rollers, the arrangement optionally including a fourth roller as a slow speed roller forming a nip between its and the high speed roller and positioned such that the tea leaves falling from the nip between the first roller and third roller falls on the surface of the fourth roller close to its vertical axis.

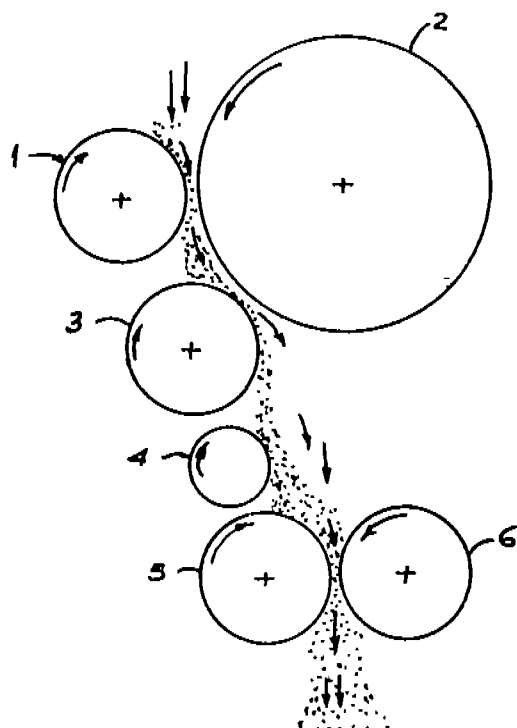


Fig. 2

Compl. Specn. 10 Pages.

Drg. 1 Sheet.

CLASS : 39-G.

169020

Int. Cl. : C 01 b 9/02; C 01 f 5/30, 23/02; C 01 g 25/04.

**CHLORINATION OF METALLURGICAL COMPOSITES.**

Applicant : CRA SERVICES LIMITED, OF 55 COLLINS STREET, MELBOURNE, VICTORIA, AUSTRALIA.

Inventors : (1) PHILIP HANNAKER, (2) KENNETH CRICHTON HAMILTON, (3) ALAN STUART BUCHANAN, (4) KEITH BOWDLER.

Application No. 977/Cal/1987, filed on 15th December, 1987.

[Convention date 18th December, 1986 (PH. 9567) Australia.]

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

12 Claims

Process for recovery of metal values as chlorides from minerals containing titanium, zirconium and/or magnesium, characterised by forming a composite mixture of a said mineral and a moist plastic mass produced by subjecting brown coal to predominantly shearing forces; compacting the composite mixture to produce a compacted mass, drying the compacted mass, and heating in a known manner at a temperature such as herein described the dried compacted mass to produce a carbonised mass; and heating the carbonised mass in the presence of chlorine in a known manner at a temperature such as herein described to produce chlorides of titanium, zirconium and/or magnesium, said chlorides being sufficiently volatile or mobile at the reaction temperature to be

effectively eliminated from the carbonised mass and to leave the reaction zone either as a vapour or free-flowing liquid; and recovering said chloride from the reaction zone.

Compl. Specn. 24 Pages.

Drg. NIL.

CLASS : 35-D, E; 136-E.

169021

Int. Cl. : B 32 b 7/00; C 04 b 35/00, 35/64, 14/00.

**METHOD FOR PRODUCING MOLD-SHAPED CERAMIC BODIES.**

Applicant : LANXIDE TECHNOLOGY COMPANY, LP, TRALEE INDUSTRIAL PARK, NEWARK, DELAWARE 19711, U.S.A.

Inventor : EVANS ALLEN LAROCHE, JR.

Application No 7/Cal/1988, filed on 1st January, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

16 Claims

A method for producing a shaped, self-supporting ceramic body, the method comprising :

- (a) providing a shaped parent metal selected from the group consisting of aluminium, as herein described, silicon, titanium, tin, zirconium and hafnium with or without a dopant material as herein described, having a pattern section;
- (b) applying to said pattern section a conformable, gas-permeable material as herein described, to provide a mold having a shaped surface which is substantially congruent to said pattern section, said material being intrinsically self-bonding, at least in a support zone thereof immediately adjacent to and coextensive with said surface, to provide said mold with sufficient cohesive strength to retain the integrity of said shaped surface under the processing conditions defined in following steps (d) and (e);
- (c) orienting said parent metal and a receptacle to place said parent metal in flow communication with said receptacle, the capacity of said receptacle being at least sufficient to accommodate substantially all of said parent metal in molten form;
- (d) heating said parent metal to a temperature region above its melting point but below the melting point of its oxidation reaction product and evacuating the resulting molten parent metal from said mold into said receptacle to provide a mold cavity;
- (e) continuing said heating in the presence of vapor-phase oxidant as herein described and, in said temperature region :
  - (i) reacting the molten parent metal with said oxidant to form an oxidation reaction product,

(ii) maintaining at least a portion of said oxidation reaction product in contact with and between said body of molten metal and said oxidant, to progressively draw molten metal from said body through the oxidation reaction product and into said mold for contact with said oxidant so that oxidation reaction product continues to form within said mold at the interface between the oxidant and previously formed oxidation reaction product, and

(iii) continuing said reaction to grow said oxidation reaction product into contact with said shaped surface, thereby forming a ceramic body whose shape is determined by the shape of said mold cavity, and

(f) recovering said ceramic body from said mold.

Compl. Specn. 26 Pages.

Drgs. 2 Sheets.

CLASS : 129-E.

169022

Int. Cl. : B 23 p 15/14.

# METHOD FOR PRODUCING NEAR NET RING GEAR FORGINGS.

Applicant: EATON CORPORATION, AT 1111 SUPERIOR AVE., CLEVELAND, OHIO 44114, U.S.A.

Inventors: (1) ALVIN MORTON SABROFF, (2) JAMES RICHARD DOUGLAS.

Application No. 108/Cal/1988, filed on 8th February, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 8 Claims

A method for producing near net ring gear forgings (106) having a known outside diameter (126), toe diameter (124) and volume, said process comprising the steps of:

- (a) providing properly sized and shaped billets (100) of a known low to medium carbon level carbon or alloy steel;
- (b) heating the billets (130) to an appropriate forging temperature;
- (c) forging the heated billets (130) in a preform (138) die having a generally toroidal shaped cavity (150) into untrimmed substantially toroidal shaped ring rolling preforms (132);
- (d) with or without reheating, trimming the untrimmed substantially toroidal shaped ring rolling preforms into trimmed substantially toroidal shaped ring rolling preforms (102);
- (e) with or without reheating, ring rolling the preforms into rings (104) having substantially rectangular cross-sectional walls of a given height (108) and thickness (110) such that the inner diameter (112) of said ring is substantially equal to the toe diameter, the outer diameter (114) of said ring is less than said outside

diameter and the height of said rings is in the range of one (1) to four (4) times the wall thickness thereof; and

(f) without reheating, precision forging said rings into near net ring gear forgings.

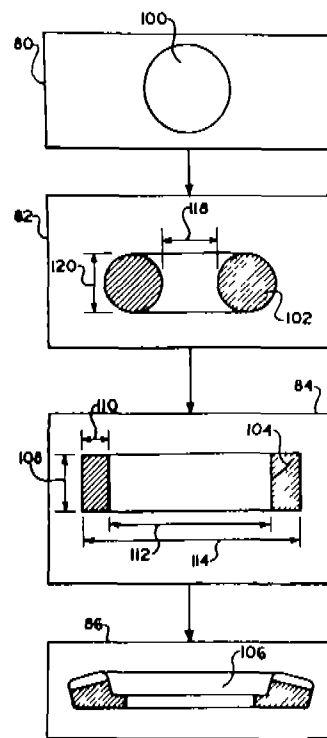


Fig. 4

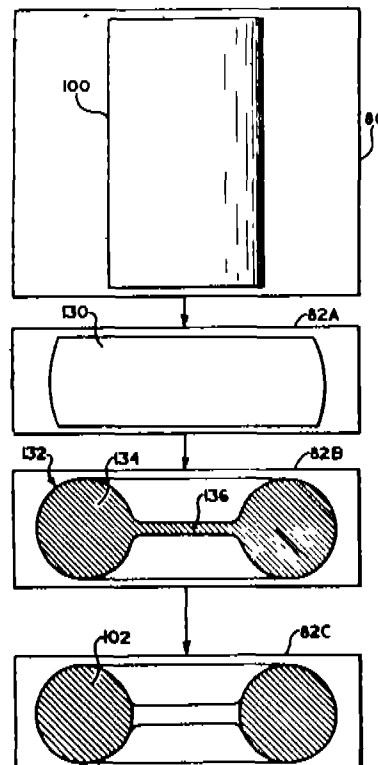


Fig. 5

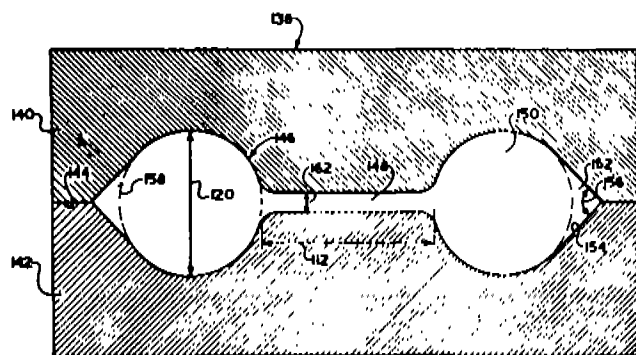


Fig. 6

Compl. Specn. 29 Pages.

Drgs. 10 Sheets.

CLASS : 32-F<sub>3C</sub>.

169023

Int. Cl. : C 07 c 126/00, 127/00.

**IMPROVED UREA SYNTHESIS PROCESS HAVING STRIPPING TYPE SOLUTION RECYCLED STEP.**

Applicant : TOYO ENGINEERING CORPORATION, OF 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventor : HIDEITSUGU FUJII.

Application No. 135/Cal/1988, filed on 15th February, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

2 Claims

Improved urea production process which includes reacting ammonia and carbon dioxide at a urea synthesis pressure and a urea synthesis temperature to form a urea synthesis liquor containing urea, unreacted ammonia, unreacted carbon dioxide and water, subjecting the urea synthesis liquor to carbon dioxide stripping under substantially the same pressure as in the urea synthesis to separate a part of the above-described unreacted ammonia and carbon dioxide as a mixed gas, subjecting the thus-depleted synthesis liquor to at least one stage of separation step of unreacted ammonia and carbon dioxide under a pressure lower than in the urea synthesis to separate out substantially all of the unreacted ammonia and carbon dioxide remaining in the foregoing urea synthesis liquor as a mixed gas and thereby to obtain an aqueous carbonate solution which has been obtained by absorbing the mixed gas separated at a lower pressure than in the urea synthesis in an absorption medium, comprising water to substantially the same pressure as in the urea synthesis, condensing the mixed gas from the above-described stripping step in the foregoing absorption solution, and recycling the condensed solution thus obtained to the above-described urea synthesis, the improvement comprising subjecting at least a part of the said aqueous carbonate solution having the pressure raised to the above-described urea synthesis pressure to former urea synthesis at the urea synthesis pressure and a urea synthesis temperature with a part of each of make up ammonia and carbon dioxide to produce a urea synthesis liquor and using the last mentioned urea synthesis liquor in the above-described condensation.

Compl. Specn. 16 Pages.

Drg. 1 Sheet.

CLASS : 35-C, E.

169024

Int. Cl. : C 04 b 28/00, 28/06, 35/10, 35/18, 35/44, 35/62, 35/66.

**A METHOD OF PREPARING RAPIDLY SOLIDIFYING ALUMINA CONTAINING REFRACTORY CONCRETE.**

Applicant : VEB SILIKATWERK BRANDIS, LM VEB QUALITÄTS-UND EDELSTAHL-KOMBINAT BRANDENBURG, GRIMMAISCHE STRASSE 20, BRANDIS 7253, GERMANY.

Inventors : (1) MANFRED HAWECKER, (2) HANS HOER &amp; (3) MARTIN DRESCHER.

Application No. 171/Cal/88, filed on 29th February, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

2 Claims

A method of preparing rapidly solidifying alumina containing refractory concrete comprises mixing low calcium aluminate cement content, fine-grained oxide of aluminium, ultrafine silica and liquefying phosphate to obtain a thorough blend adding water to produce a workable mixture and allowing the same to hydrate and solidify characterized in that in the dry mix, the fine portion of less than 0.04 mm contains about 0.2 upto 1% of MgO pigment mixed with amorphous silicon dioxide from silicon and/or ferro-silicon production in quantities from about 5 to 20% and Graham's salt in quantities from about 0.5 to 1.5% and the finest substances related to one m<sup>3</sup> of dry mixture being composed as follows :

MgO pigment	about 1 to 10 kg
SiO <sub>2</sub>	about 20 to 200 kg
α-Al <sub>2</sub> O <sub>3</sub>	about 50 to 250 kg
Graham's salt	about 2 to 15 kg

with the usual refractory aggregate portion above 0.04 mm being less than 80%.

Compl. Specn. 8 Pages.

Drg. NIL.

CLASS : 85.

169025

Int. Cl. : F 22 b 9/12.

**IMPROVED FIRE TUBE BOILERS.**

Applicant : AMALENDU BHATTACHARYYA AND PRATIVA ACHARJEE, OF 7/1B MOTILAL NEHRU ROAD, CALCUTTA-700029, WEST BENGAL, INDIA.

Inventor : DR. BIMALENDU ACHARJEE.

Application No. 795/Cal/1988, filed on 7th March, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

8 Claims

Improved fire-tube boiler comprising a fire chamber within an enclosure for burning fuel on a grate and creating hot gases/air therein, said fire chamber having usual annular water-leg, a

plurality of fire-tubes in flow communication with said fire chamber, through a set of smoke boxes, the space around the said tubes being adapted to hold water to be heated, the said plurality of fire tubes being housed within said enclosure, characterized in that (i) said fire-chamber is provided with one or more exhaust manifold at the water-leg region, (ii) all the fire-tubes are mounted between the end walls of the said enclosure, (iii) the fire-tubes being adapted to receive the hot gases from the fire chamber through (a) a set of common ducts and smoke boxes or (b) said exhaust manifold and smoke boxes and (iv) the said fire chamber being free of usual wrapper plate used to define an internal smoke box.

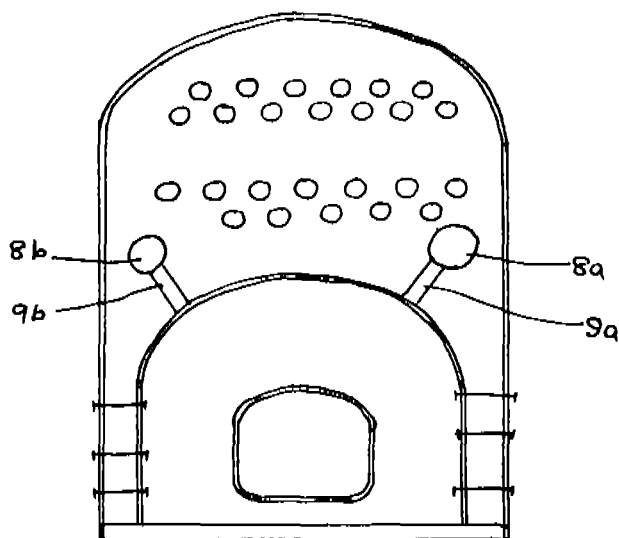


Fig. 2b

Compl. Specn. 21 Pages.

Drgs. 4 Sheets.

CLASS : 172-B, 4, 5, 9.

169026

Int. Cl. : D 01 g 15/46, 21/00.

#### DEVICE FOR THE TRANSPORTATION OF SLIVER CANS BY MEANS OF A CIRCULATING CONVEYOR ELEMENT.

Applicant : TRUTZSCHLER GMBH & CO. KG., OF DUVENSTR. 82-92, D-4050, MONCHENGLADBACH 3, WEST GERMANY.

Inventors : (1) MANFRED LANGEN, (2) GREGOR GEBALD.

Application No. 209/Cal/1988, filed on 10th March, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

20 Claims

A device for transporting sliver cans, the device including a conveyor element, a carrier movably mounted on the conveyor element and movable between a first position for engaging a part of the carrier in a recess in the bottom of a can and a second position for being disengaged from the recess in the bottom of the can, and force applying means associated with the carrier and conveyor element for movement therewith for applying a force to the carrier to move the carrier into the first position.

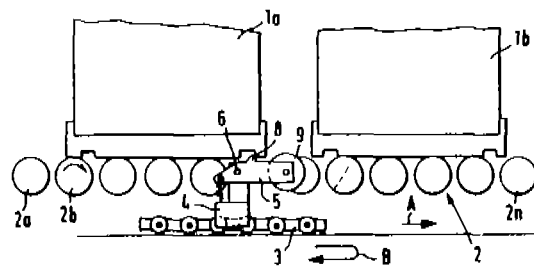


Fig. 1a

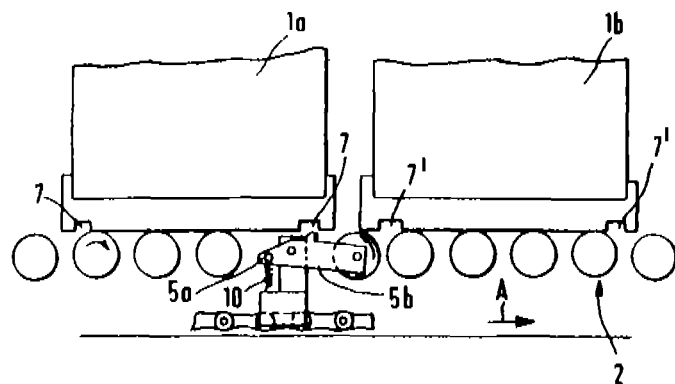


Fig. 1b

Compl. Specn. 14 Pages.

Drgs. 3 Sheets.

CLASS : 55-Ea.

169027

Int. Cl. : C 12 n 15/00.

#### PROCESS FOR THE PREPARATION OF A VACCINE.

Applicant & Inventor : MARC BALLIVET, OF 15, RUE MUZY, 1207 GENEVA, SWITZERLAND AND STUART ALAN KAUFMAN, OF 615 OLD GULPH ROAD, BRYN MAWR, PENNSYLVANIA 19010, U.S.A.

Application No. 228/Cal/1989, filed on 21st March, 1989.

(Divisional of Application No. 127/Cal/1986; Ante-dated February 20, 1986).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

3 Claims

Process for the production of a vaccine against a given pathogenic agent such as herein described, characterised in that polynucleotide sequences which are at least partially composed of stochastic synthetic polynucleotides are produced simultaneously in a common milieu, the polynucleotide sequences thus obtained are amplified, screened and/or selected to identify clones of the transformed host cells, containing said polynucleotides sequences, producing peptides, polypeptides or proteins having at least one epitope similar to and/or mimetic of at least one of the epitopes of a pathogenic agent, or to identify amplified genes capable of being expressed as such peptides, polypeptides or proteins, wherein identification of said clones or said genes is effected using antibodies against pathogenic agent, or other shape complement of the latter,



the thus identified clones are grown in a manner to produce this peptide, polypeptide or protein, or the thus identified genes are isolated and translated to produce the said peptide, polypeptide or protein, and the thus obtained peptide, polypeptide or protein is used for the production of a vaccine against the pathogenic agent.

Compl. Specn. 28 Pages.

Dr. NIL.

CLASS : 128-G.

169028

Int. Cl. : A 61 b 17/08, 17/12.

### SURGICAL HEMOSTATIC CLIPS.

Applicant : ETHICON, INC., OF U.S. ROUTE NO. 22, SOMERVILLE, NEW JERSEY 08876, U.S.A.

Inventors : (1) JAMES ANTHONY TRANSUE, (2) ARTHUR ALBERT GERTZMAN, (3) MICHAEL STEVEN THOMAS, (4) JOHN NEWMAN PYN, (5) JOSEPH D' INNOCENZIO.

Application No. 235/Cal/88, filed on 21st March, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 12 Claims

A metallic surgical hemostatic clip comprising first and second legs each exhibiting a major longitudinal dimension, said legs being joined at their proximate ends at a hinge region of the clip, said legs each exhibiting an intermediate bend intermediate their distal and proximate ends which bring the tissue contacting distal ends of said legs toward each other, and a notch or groove, located in the applicator contacting surface of each leg opposite each intermediate leg bend, each notch or groove extending generally normal to said longitudinal dimension of each leg, wherein said notches or grooves promote a tendency of said legs to straighten to a substantially gapless condition upon closure, a pair of fillets located respectively at the jointures of said sidewalls and said applicator contacting surface at the hinge region of said clip, and a hinge recess located in the tissue contacting surface at said hinge region.

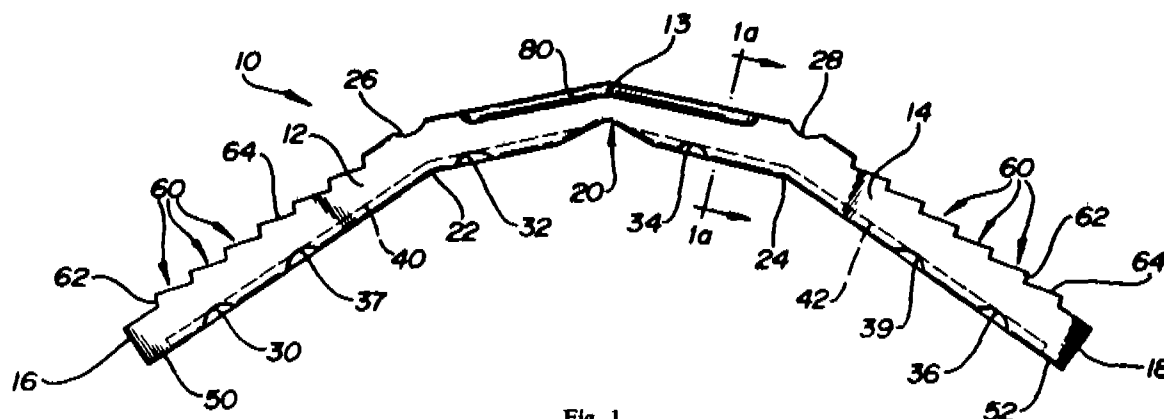


Fig. 1

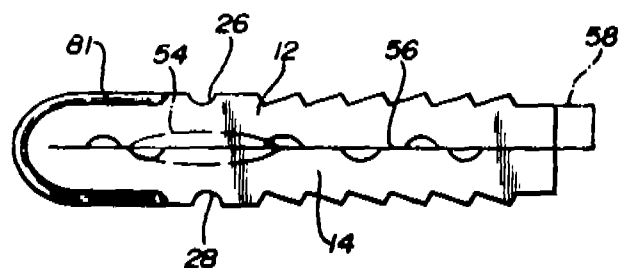


Fig. 5

Compl. Specn. 16 Pages.

Dr. 3 Sheets.

CLASS : 40-B.

169029

Int. Cl. : B 01 j 23/76.

A PROCESS FOR PREPARATION OF IRON OXIDE CHROMIUM OXIDE CATALYST SUITABLE FOR PRODUCTION OF HYDROGEN BY CARBON MONOXIDE CONVERSION (H.T. SHIFTCATALYST).

Applicant : PROJECTS & DEVELOPMENT INDIA LIMITED OF P.O. SINDRI, PIN 828122, DHANBAD, BIHAR, INDIA.

Inventors : (1) DR. NEMAI CHANDRA DATTA, (2) ASHIT BARAN GHATAK, (3) BASUDEV SANDILYA, (4) BASKER SEN, (5) KESTO CHANDRA BANERJEE.

Application No. 272/Cal/1988, filed on 30th March, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 17 Claims

An improved method for the preparation of iron oxide-chromium oxide catalyst suitable for use in a shift conversion process which comprises preparing a solution of ferrous sulfate and subjecting it to precipitation of iron hydroxides using an alkali in presence of a chromium salt at an alkaline pH of upto 12.5 followed by subjecting the so obtained slurry to a step of oxidation for the conversion of the hydroxides to oxide form, thereafter allowing the slurry obtained after the oxidation to a step of ageing at controlled conditions of temperature in order to build stable crystal particles of the oxide whereafter, the aged slurry is subjected to filtration to remove the precipitated catalyst as filter cake being then dried and thereafter subjected to granulation and tableting to obtain necessary catalyst which is further stabilized by heat treatment.

Compl. Specn. 17 Pages.

Dr. 3 Sheets.

CLASS : 172-Da.

169030

## REGISTRATION OF DESIGNS

Int. Cl. : D 01 h 7/00, 7/52.

## A RING WINDING APPARATUS.

Applicant : TELJIN SEIKI CO., LTD., OF HIGOBASHI CENTER BUILDING, 9-1, EDOBORI 1-CHOME, NISHI-KU, OSAKA-SHI, OSAKA-FU, JAPAN.

Inventor : YOSHIO GONO.

Application No. 304/Cal/1988, filed on 13th April, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 2 Claims

A ring winding apparatus comprising a pair of yarn delivery rollers, around which a yarn is wrapped and which comprise a driving roller and a separate roller disposed parallel to said driving roller; a yarn guide disposed below said yarn delivery rollers; and a ring winder, which comprises a spindle, a ring, a traveller movably inserted onto said ring, and by which said yarn delivered from said separate roller via said yarn guide is wound in a pirn, wherein said driving roller of said pair of yarn delivery rollers is disposed at a distance outside a ballooning drawn by said yarn travelling between said separate roller and said yarn guide, said driving roller being displaced by a distance between 5 and 10mm from a yarn passage between said separate roller and said yarn guide.

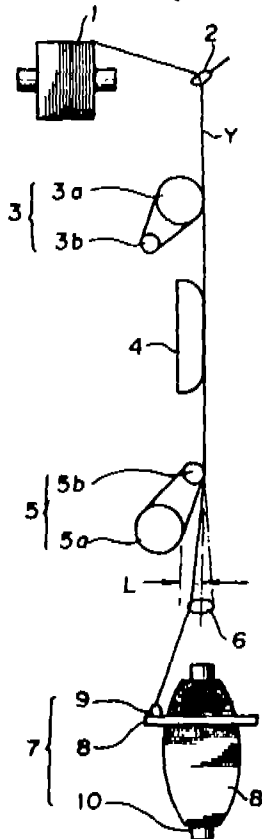


Fig. 1

Compl. Specn. 7 Pages.

Drgs. 2 Sheets.

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration of the design included in the entry.

Class 1. No. 162885. Mahinder Narain, 18-Rajpura Road, Delhi-110054, India, Indian National. "Grease Gun". February 4, 1991.

Class 1. No. 162894. Indian Instruments Mfg. Co., Indian Partnership Firm of 208, Bipin Behari Ganguly Street, Calcutta-700012, West Bengal, India. "Projector". 8th February, 1991.

Class 1. No. 162840. Hunter Douglas Industries B.V., of Pickstraat 2, 3071 EL Rotterdam, The Netherlands. "Ceiling Panel". July 26, 1990 (U.K.).

Class 3. No. 162832. Dutt Products, Inside Dariapur Gate, Opposite Vadigam, Ahmedabad-380001, Gujarat, India. "Door Silencer". January 15, 1991.

Class 3. No. 162824. Asha Handicrafts, 84, Marol Co-operative Industrial Estate, Mathuradas Vasanji Road, Marol, Andhri (E), Bombay-400059, Maharashtra, India, Indian Partnership Firm. "Water Bottle". January 8, 1991.

Class 3. No. 162994. Vinod Manufacturing Co., Indian Partnership Firm of 29/3, Alapura No. 1, Indore-452004, Madhya Pradesh, India. "Bottle". March 11, 1991.

Class 3. No. 162953. Boys Town Crafts of Boys Town, Tirumangalam 626706, Madurai Dist., T.N., India. "Massaging Device". February 27, 1991.

Class 3. Nos. 162913 to 162917. Devi Polymers (Pvt.) Ltd. of 48, Anna Salai, T.N.K. House, Madras-600002, T.N., India, Indian Company. "Water Tank Panel". February 18, 1991.

Class 4. No. 162860. Melmoking of 13/24, East Patel Nagar, New Delhi-110008, India, Indian Partnership Firm. "Dinner Plate". January 23, 1991.

Class 12. No. 163103. Aap Ki Pasand, a proprietary firm of 15, Netaji Subhash Marg, New Delhi-110002, India. "Packing Bag". April 2, 1991.

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